

1. A vector containing DNA that encodes the Ribonuclease of SEQ ID NO:1.
2. The vector of claim 1, wherein the vector is pET11d plasmid.
3. The vector of claim 1, wherein the vector is pET22b plasmid.
4. A vector containing DNA that encodes the Ribonuclease of SEQ ID NO:17.
5. A vector containing DNA that encodes the Ribonuclease of SEQ ID NO:34.
6. A vector containing DNA that encodes the Ribonuclease of SEQ ID NO: 51.
7. A vector containing DNA that encodes the Ribonuclease of SEQ ID NO: 55.
8. A protein having the amino acid sequence of SEQ ID NO:59 produced recombinantly.
9. A protein produced recombinantly and having the amino acid sequence of SEQ ID NO:1 after its initial methionine residue has been cleaved off.
10. A protein having the amino acid sequence of SEQ ID NO:60 produced recombinantly.
11. A protein produced recombinantly and having the amino acid sequence of SEQ ID NO:17 after its initial methionine residue has been cleaved off.

12. A protein having the amino acid sequence of SEQ ID NO:61 produced recombinantly.
13. A protein produced recombinantly and having the amino acid sequence of SEQ ID NO:34 after its initial methionine residue has been cleaved off.
14. A protein having the amino acid sequence of SEQ ID NO:68 produced recombinantly.
15. A protein produced recombinantly and having the amino acid sequence of SEQ ID NO:51 after its initial methionine residue has been cleaved off.
16. A protein having the amino acid sequence of SEQ ID NO:59.
17. A conservatively modified variant of the protein of claim 16.
18. A gene that when expressed in a host encodes the protein of claim 16.
19. A gene that when expressed in a host encodes the protein of claim 17.
20. A protein having the amino acid sequence of SEQ ID NO:60.
21. A conservatively modified variant of the protein of claim 20.

22. A gene that when expressed in a host encodes the protein of claim 20.
23. A gene that when expressed in a host encodes the protein of claim 21.
24. A protein having the amino acid sequence of SEQ ID NO:61.
25. A conservatively modified variant of the protein of claim 24.
26. A gene that when expressed in a host encodes the protein of claim 24.
27. A gene that when expressed in a host encodes the protein of claim 25.
28. A protein having the amino acid sequence of SEQ ID NO:63.
29. A protein having the amino acid sequence of SEQ ID NO:65.
30. A protein having the amino acid sequence of SEQ ID NO:67.
31. A protein having the amino acid sequence of SEQ ID NO:1 preceded at its N-terminal end by a leader sequence that has at least the first and at most all of the residues of SEQ ID NO:64 in order.
32. A protein having the amino acid sequence of SEQ ID NO:1 preceded at its N-terminal end by a leader

sequence that has at least the first and at most all of the residues of SEQ ID NO:66 in order.

- 33. A protein having the amino acid sequence of SEQ ID NO:68.
- 34. A conservatively modified variant of the protein of claim 33.
- 35. A gene that when expressed in a host encodes the protein of claim 33.
- 36. A gene that when expressed in a host encodes the protein of claim 34.
- 37. A protein having the amino acid sequence of SEQ ID NO:69.
- 38. A conservatively modified variant of the protein of claim 37.
- 39. A gene that when expressed in a host encodes the protein of claim 37.
- 40. A gene that when expressed in a host encodes the protein of claim 38.
- 41. A conjugate protein comprising the protein of claim 37 and a targeting moiety conjugated to the cysteine residue at position 71.
- 42. A protein having the amino acid sequence of SEQ ID NO:17 preceded at its N-terminal end by a leader

sequence that has at least the first and at most all of the residues of SEQ ID NO:64 in order.

43. A protein having the amino acid sequence of SEQ ID NO:17 preceded at its N-terminal end by a leader sequence that has at least the first and at most all of the residues of SEQ ID NO:66 in order.
44. A protein having the amino acid sequence of SEQ ID NO:34 preceded at its N-terminal end by a leader sequence that has at least the first and at most all of the residues of SEQ ID NO:64 in order.
45. A protein having the amino acid sequence of SEQ ID NO:34 preceded at its N-terminal end by a leader sequence that has at least the first and at most all of the residues of SEQ ID NO:66 in order.
46. A protein having the amino acid sequence of SEQ ID NO:51 preceded at its N-terminal end by a leader sequence that has at least the first and at most all of the residues of SEQ ID NO:64 in order.
47. A protein having the amino acid sequence of SEQ ID NO:51 preceded at its N-terminal end by a leader sequence that has at least the first and at most all of the residues of SEQ ID NO:66 in order.
48. A protein having the amino acid sequence of SEQ ID NO:55.
49. A fusion protein having the amino acid sequence of SEQ ID NO:70.

50. A conservatively modified variant of the protein of claim 49.
51. A gene that when expressed in a host encodes the protein of claim 49.
52. A gene that when expressed in a host encodes the protein of claim 50.
53. A fusion protein comprising a) the protein of SEQ ID NO:1 or a conservatively modified variant thereof and b) a targeting moiety.
54. The fusion protein of claim 53, further comprising a linker sequence linking the protein and the targeting moiety.
55. A conjugated fusion protein comprising a) the fusion protein of SEQ ID NO:70 or a conservatively modified variant thereof and b) a targeting moiety conjugated to the cysteine residue located at position 71.
56. A vector containing DNA of SEQ ID NO:71 encoding the Ribonuclease of SEQ ID NO:70.

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